



Intel[®] Centrino[®] Ultimate-N 6300



Ultimate Wireless Performance and Exceptional Intel Features

Intel® Centrino® Ultimate-N 6300 delivers ultimate Wi-Fi performance with exceptional Intelonly features for an ultra mobile experience. This triple-stream (3x3), dual-band, 802.11a/g/n Wi-Fi product with Wi-Fi Direct* combines the best speed (up to 450 Mbps¹), extended range and robust reliability with innovative Intel features, such as Intel® Smart Connect Technology, Intel® Wireless Display, Intel® My WiFi Dashboard and Intel® vPro™ Technology.

Recommended For

Business or home, data intensive apps, streaming HD video, gaming, and network connectivity in crowded, heavy traffic and large area Wi-Fi environments.

Next-Gen Wireless Connectivity Triple Stream, Dual Band Delivers up to 450 Mbps with triple streams (3x3) for ultimate speed and connections Wilfi 802.11a/g/n 3x3 and 2.4/5 GHz in more places, through more walls, doors and floors. Use the power of 5 GHz to boost CERTIFIED speeds and reduce congestion compared to older 2.4 GHz networks and devices. multi-stream n Enables Wi-Fi enabled devices to connect directly without the need for a WLAN or Wi-Fi Direct* hotspot. With the Intel® My WiFi Dashboard you can chat, transfer files, create a New game-changing technology certified by the Wi-Fi Alliance for direct device-to-device Wi-Fi connectivity personal hotspot, and sync over Wi-Fi Direct.* Energy Efficient² Saves battery life for greater mobility and convenience. Optimized power modes during periods of inactivity Extended Availability3 Extended availability products meet the needs of industrial, communications, M2M, For embedded and machine-to-machine (M2M) applications digital signage, retail and point-of-sale applications. Ultra Mobile Experience Experience your favorite movies, videos, photos, online shows and more in full HD on Intel® Wireless Display4 your TV with great image clarity and sound. With a PC featuring Intel® Wireless Display View and listen to videos, movies, or music and powered by an Intel® Core processor, share content from your hard disk, network from the Internet or on your PC wirelessly or anywhere a browser can take you to a big screen. on an HDTV or stereo Automatically updates important content and can identify access points while asleep Intel® Smart Connect Technology5 Instant Internet and always updated mobility for quicker Internet access on resume. Use the ultimate portability of Wi-Fi Direct with the Intel® My WiFi Dashboard on your Intel® My WiFi Dashboard6 Visually intuitive app for managing Ultrabook™, PC or other devices. Whether you're connected to a Wi-Fi network, public Wi-Fi Direct* connectivity and services hotspot or no network at all - connect, communicate and collaborate with others in your vicinity. No extra hardware or cloud-based service. No fumbling for USB flash drives or complicated network setup.

Business-Class Management



Intel® vPro™ Technology7

Supports Intel's hardware-based security and management features built into Intel® Core™ vPro™ processors and chipsets

Manage PCs virtually anywhere, anytime while reducing deployment costs, improving security and ROI.

Intel® Active Management Technology8

Supports Intel asset management, remote system diagnostics, network protection, and network security technologies

Provides IT managers the capability to remotely discover, heal, and protect wireless clients regardless of the functional state of the operating system resulting in reduced on-site support costs.

Intel® PROSet/Wireless Enterprise Software9

Business-class WLAN client software with must-have IT features

Combines simplified user interface design with advanced IT tools that improve security, reduce complexity and save IT time and money. Streamlines client deployments and allows remote management of wireless settings and profiles by IT managers.

Intel® Centrino® Ultimate-N 6300 Technical Specifications

General

Dimensions (H x W x D) 26.80 mm x 30.00 mm x 2.4 mm Max (Top Side) / 1.35 mm Max (Bottom Side)

Weight 4.0q

Diversity On-board diversity support for systems designed with two antennas

Radio ON/OFF Control Supported in both hardware and software

Connector interface Half Mini Card form factor, based on PCle electrical interface

LED Output $\Omega n/\Omega ff$ Operating Temperature (Adapter Shield) 0° to +80° C

Humidity Non-Operating 50% to 90% RH non-condensing (at temperatures of 25°C to 35°C)

Operating Systems Microsoft Windows 7*, Microsoft Windows 8*, Linux*, Microsoft Windows XP*

Wi-Fi Alliance Wi-Fi CERTIFIED* for 802.11a, 802.11b, 802.11q, 802.11n, WMM*, WPA*, WPA2*, and WPS

Wi-Fi Direct for peer to peer device connections

Microsoft WHQL

IEEE WLAN Standard IEEE 802.11a/b/g/n, 802.11d, 802.11e, 802.11i, 802.11h

Architecture Infrastructure and SoftAP; Supports simultaneous Client and SoftAP modes in 2.4 GHz or 5 GHz

(Not all versions)

Roaming¹⁰ Supports seamless roaming between respective access points

(802.11b, 802.11g, 802.11a/b/g, and 802.11a/b/g/n)

Security¹¹

WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA Authentication

Authentication Protocols PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2 64-bit and 128-bit WEP, AES-CCMP, TKIP Encryption

Wi-Fi Direct* Encryption and Authentication WPA2, AES-CCMP

Product Safety UL, C-UL, CB (IEC 60950-1)

Compliance

Retail (Credit Card Processing) PCI, CISP Government FIPS12, FISMA

| Product Name | Model Number | Version |
|----------------------------------|---------------------------|--|
| Intel* Centrino* Ultimate-N 6300 | 6300anhmw 6300anhmwebc | 802.11a/g/n 802.11 a/g/n. Extended Availability |

For more information on Intel® Centrino® wireless products, visit intel.com/go/wireless

- Based on the theoretical maximum bandwidth enabled by 3x3 802.11n implementations with 3 spatial streams. Actual wireless throughput and/or range will vary depending on your specific operating system, hardware and software configurations. Check with your PC manufacturer for details.

 References to power consumption refer to Wi-Fi module power consumption comparisons versus competing 802.11n WLAN solutions. Actual platform battery life savings will vary depending on your
- specific operating system, hardware and software configurations. Check with your PC manufacturer for details.
- specific operating system, naroware and software configurations. Check with your Pc manufacturer for details.

 The extended availability version (commercial temperature) is the standard commercial Intel® Centrino® Ultimate-N 6300 product with extended product availability.

 Requires an Intel® Wireless Display enabled PC, compatible adapter, and TV. 1080p and Blu-Ray* or other protected content playback only available on 2nd generation Intel® Core™ processor-based PCs with built-in visuals enabled. Consult your PC manufacturer. For more information, see www.intel.com/go/widi.

 Intel® Smart Connect Technology requires a select Intel® processor, Intel® software and BIOS update, Intel® Wireless adaptor, and Internet connectivity. Solid state memory or drive equivalent may be required. Depending on system configuration, your results may vary. Contact your system manufacturer for more information.

 Intel® My WiFi Technology is an optional feature and requires additional software and an Intel® Centrino® wireless adapter. Wi-Fi devices must be certified by the WiFi Alliance for the connect. See www.intel. See wirely (veryducts) for more defaults.

- 802.11a/g/n and Wi-Fi Direct* in order to connect. See www.intel.com/network/connectivity/products/wireless/mywifi.htm for more details.

 7 Intel® vpro™ Technology is sophisticated and requires setup and activation. Availability of features and results will depend upon the setup and configuration of your hardware, software and IT environment. To learn more visit: http://www.intel.com/technology/vpro
- [®] Requires activation and a system with a corporate network connection, an Intel® AMT-enabled chipset, network hardware and software. For notebooks, Intel AMT may be unavailable or limited over a host OS-based VPN, when connecting wirelessly, on battery power, sleeping, hibernating or powered off. Results dependent upon hardware, setup & configuration. For more information, visit
- Intel® PROSet/Wireless Software may not be supported by your PC manufacturer. Check with your PC manufacturer for details on availability
- 10 Roaming is supported only within each respective band and mode of access points.
 11 Some security solutions may not be supported by your PC's operating system and/or by your PC manufacturer. Check with your PC manufacturer for details on availability.

¹² Microsoft Windows 7 only.

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance

specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products.

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